

Grp78/BiP ELISA kit, 3/14

March 2014—Enzo Life Sciences' high-sensitivity Grp78/BiP ELISA kit is an endoplasmic reticulum-specific homologue of Hsp70, serving as a critical stress-sensing chaperone and regulator of the unfolded protein response (UPR). Grp78 helps fold misfolded proteins, prevent protein aggregation, and regulate protein degradation, synthesis, transportation, and oligomerization. The role of ER-stress regulating proteins in maintaining proteostasis, inducing macroautophagy, and the expression of Grp78 on the surface of some tumor cells makes Grp78 and the UPR pathway a potential target for neurodegenerative and cancer therapies.

This quantitative ELISA kit enables quantification of normal and upregulated levels of Grp78/BiP, detecting as little as 8.4 ng/mL of Grp78/BiP in human, mouse, and rat cell lysates or serum samples. The assay provides quantitative results with excellent reproducibility between experiments, offering efficiency over Western blotting by requiring less sample input. It can analyze up to 40 duplicate samples in 2.5 hours. The product is supplied with an easy-to-follow protocol, pre-coated microtiter plate, and liquid color-coded reagents.

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